

STANDARD IB CLUTCH

IB318P0

QUALITY IS STANDARD

- TAPERED ROLLER MAIN BEARINGS
- SEALED FOR LIFE PILOT BEARING
- VENTILATED CENTER PLATES AND DRIVE RING
- OPTIONAL SINTERED IRON PLATES
- MORE SUITABLE FOR SIDE LOAD APPLICATIONS
- LESS MAINTENANCE
- IMPROVED HEAT DISIPATION
- CREATES 25% HIGHER TORQUE CAPACITY
- EASES ADJUSTMENT VERIFICATION



SPECIFICATIONS - IB318P0

Model Number	SAE HSG.	Dimension "A" mm (in)	Max. Input Torque Nm (lb-ft)		Maximum Safe Speed				Weight kg (lbs)
			Organic	Sintered	Solid Plates		Split Plates		
					Cast Drive Ring	Nodular Drive Ring	Cast Drive Ring	Nodular Drive Ring	
IB318P0	0	120 (4.7244)	8141 (6000)	10176 (7500)	N/A	2200	N/A	N/A	417 (920)
		100 (3.937)							
		80 (3.1496)							

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric motor	Up to 3 hours per day	1.00	1.25	1.50
	3-10 hours per day	1.00	1.25	1.75
	Over 10 hours per day	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Up to 3 hours per day	1.00	1.25	1.75
	3-10 hours per day	1.25	1.50	2.00
	Over 10 hours per day	1.50	1.75	2.25
Multi-cylinder internal combustion engine with high torque rise	Up to 3 hours per day	1.50	1.75	2.25
	3-10 hours per day	1.75	2.00	2.50
	Over 10 hours per day	2.00	2.25	2.75
Single cylinder internal combustion engine	Up to 3 hours per day	1.25	1.50	2.00
	3-10 hours per day	1.50	1.75	2.25
	Over 10 hours per day	1.75	2.00	2.50

All clutch engagements to be with prime mover below 1000 RPM. High inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

TO CALCULATE APPLICATION TORQUE:

$$\frac{5252 \times \text{HP}}{\text{Engine RPM}} = \text{Torque}$$

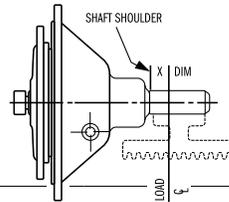
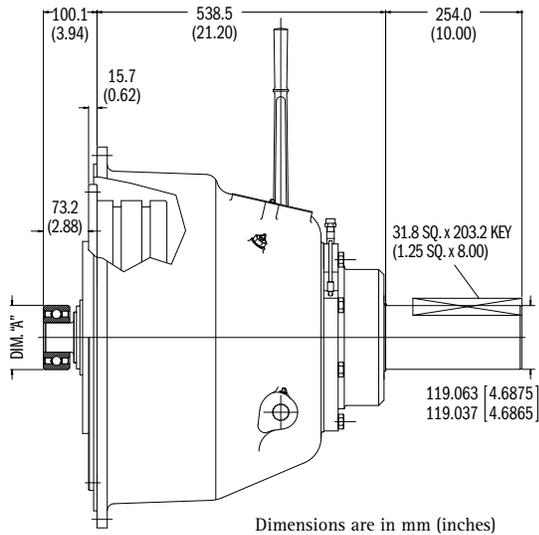
$$\text{Torque} \times \text{Load Factor} = \text{Application Torque}$$

Use load factor from chart at left

Specifications subject to change without prior notice in the interest of continual product improvement. Contact your local Twin Disc representative for engineering specifications.



IB318P



IB318P0 - ALLOWABLE SIDE LOAD, KG (LBS)

PTO MODEL	PTO	X DISTANCE, mm (in) see sketch -									
		25.4 (1.0)	50.8 (2.0)	76.2 (3.0)	101.6 (4.0)	127.0 (5.0)	152.4 (6.0)	177.8 (7.0)	203.2 (8.0)	228.6 (9.0)	
IB318P0	1000	7396 (16306)	7411 (15683)	5999 (13225)	5123 (11295)	4471 (9856)	3965 (8742)	3563 (7855)	3235 (7131)	2962 (6529)	
	1200	7004 (15442)	6737 (16852)								
	1800	6203 (13625)	5966 (13153)	5746 (12669)							
	2000	6011 (13253)	5782 (12747)	5569 (12278)							
	2200	5838 (12871)	5615 (12380)	5410 (11928)							
IB318P0	1000	7400 (16316)	6114 (13479)	5068 (11175)	4330 (9546)	3777 (8328)	3350 (7387)	3010 (6637)	2732 (6025)	2502 (5517)	
	1200	7008 (15452)									
	1800	6206 (13683)	5970 (13162)								
	2000	6015 (13261)	5786 (12756)								
	2200	5842 (12880)	5620 (12389)								
IB318P0	1000	5459 (12036)	4334 (9555)	3593 (7921)	3068 (6765)	2678 (5903)	2375 (5236)	2136 (4704)	1937 (4271)	1774 (3910)	
	1200										
	1800										
	2000										
	2200										

The following general formula should be used for determining the actual applied load: $L = \frac{126,000 \times \text{HP}}{N \times D} \times F \times \text{LF}$

- WHERE
- L = Actual Applied Load (lbs)
 - N = Shaft Speed (RPM)
 - D = Pitch Diameter (in) of Sheave, etc.
 - F = Load Factor
 - 1.0 for Chain or Gear Drive, 1.5 for Timing Belts, 2.5 for All V Belts, 3.5 for Flat Belts
 - LF = 2.1 for Reciprocating Compressors and other Severe Shock Drives and 1.8 for Large Inertia Type Drives (i.e. crushers, chippers, planers, etc.)

Compound Drives and Power Engaged Power Take-Off applications must have written factory review.

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided in our catalog. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

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